

# INTERNATIONAL SEARCH REPORT

International Application No  
**PCT/EP2004/007988**

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC 7 C01F7/36 C01F7/02 C01F7/44 B01J21/04**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

**IPC 7 C01F**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

**EPO-Internal, WPI Data**

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	NL 273 221 A (ENGELHARD INDUSTRIES, INC.) 10 September 1964 (1964-09-10)	1-3, 8-10,13
Y	page 3, line 3 - page 5, line 24; claims page 9, line 11 - line 27; examples VII,VIII	1-13
A	----- POUSKOULELI G: "METALLORGANIC COMPOUNDS AS PRECERAMIC MATERIALS II. OXIDE CERAMICS" CERAMICS INTERNATIONAL, ELSEVIER APPLIED SCIENCE PUBL, BARKING, ESSEX, GB, vol. 15, no. 5, January 1989 (1989-01), pages 255-270, XP000103795 ISSN: 0272-8842 page 255 ----- -/--	1

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

**17 June 2005**

Date of mailing of the international search report

**08/07/2005**

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>SHARMA P K ET AL: "A critical role of pH in the colloidal synthesis and phase transformation of nano size alpha-Al<sub>2</sub>O<sub>3</sub> with high surface area"</p> <p>JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, ELSEVIER SCIENCE PUBLISHERS, BARKING, ESSEX, GB, vol. 23, no. 5, April 2003 (2003-04), pages 659-666, XP004400353 ISSN: 0955-2219 page 660, right-hand column, last paragraph</p>	1
A	<p>PH. COLOMBAN: "Structure of oxide gels and glasses by infrared and raman scattering. Part 1 Alumina"</p> <p>JOURNAL OF MATERIALS SCIENCE, vol. 24, 1989, pages 3002-3010, XP002328282 page 3009, right-hand column, paragraph 1</p>	1,8, 11-13
Y	<p>WO 96/34829 A (INSTITUT FUER NEUE MATERIALIEN GEMEINNUETZIGE GMBH; BURGARD, DETLEF; N) 7 November 1996 (1996-11-07) page 5, line 4 - page 13, line 27; claims</p>	1-13
Y	<p>WO 95/12547 A (RWE-DEA AKTIENGESSELLSCHAFT FUER MINERALOEL UND CHEM; NOWECK, KLAUS; SC) 11 May 1995 (1995-05-11) page 4; claims page 6, last paragraph</p>	1-13
X	<p>DE 198 36 821 A (RWE-DEA AG) 24 February 2000 (2000-02-24) claims</p>	11,12
A	<p>DATABASE WPI Section Ch, Week 198704 Derwent Publications Ltd., London, GB; Class E13, AN 1987-026149 XP002332226 &amp; JP 61 283335 A (ASAHI KAGAKU KOGYO KK) 13 December 1986 (1986-12-13) abstract</p>	1
A	<p>DE 24 46 094 A (CONTINENTAL OIL CO.,) 10 July 1975 (1975-07-10) claims</p>	1,8,13 1
A	<p>WO 02/08124 A (INSTITUT FUER NEUE MATERIALIEN GEM. GMBH; DRUMM, ROBERT; GOEBBERT, CHR) 31 January 2002 (2002-01-31) page 4, line 4 - line 13 page 6, line 1 - line 3</p>	1,8, 11-13

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